



[54] SYSTEM AND METHOD FOR A MULTI-APPLICATION SMART CARD WHICH CAN FACILITATE A POST-ISSUANCE DOWNLOAD OF AN APPLICATION ONTO THE SMART CARD

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Related U.S. Application Data

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[58] Field of Search 380/4, 23, 24, 380/25, 49, 50, 59, 9, 21, 29, 30; 235/379, 380, 382; 379/93.01, 93.05, 93.06, 93.12

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Attorney, Agent, or Firm—Beyer & Weaver, LLP

[57] ABSTRACT

A system and method allow card issuers to securely add applications during the lifetime of the card after the card has already been issued (post issuance). Loading of an application and/or objects from an application server via a card acceptance device (and its supporting system infrastructure delivery mechanism) onto a card post issuance is performed in a secure and confidential manner. A smart card includes a card domain application that manages the card. Any number of security domain applications on the card provide security for loaded applications by managing keys; each application is associated with a security domain. Each of the card domain and security domains has a command interface for off-card communication, and an API for internal card use. The card life cycle includes the states of masked, initialized, load secured and blocked. An application life cycle includes the states of not available, loaded, installed, registered, personalized, activated and blocked. An application can block the card.

24 Claims, 15 Drawing Sheets

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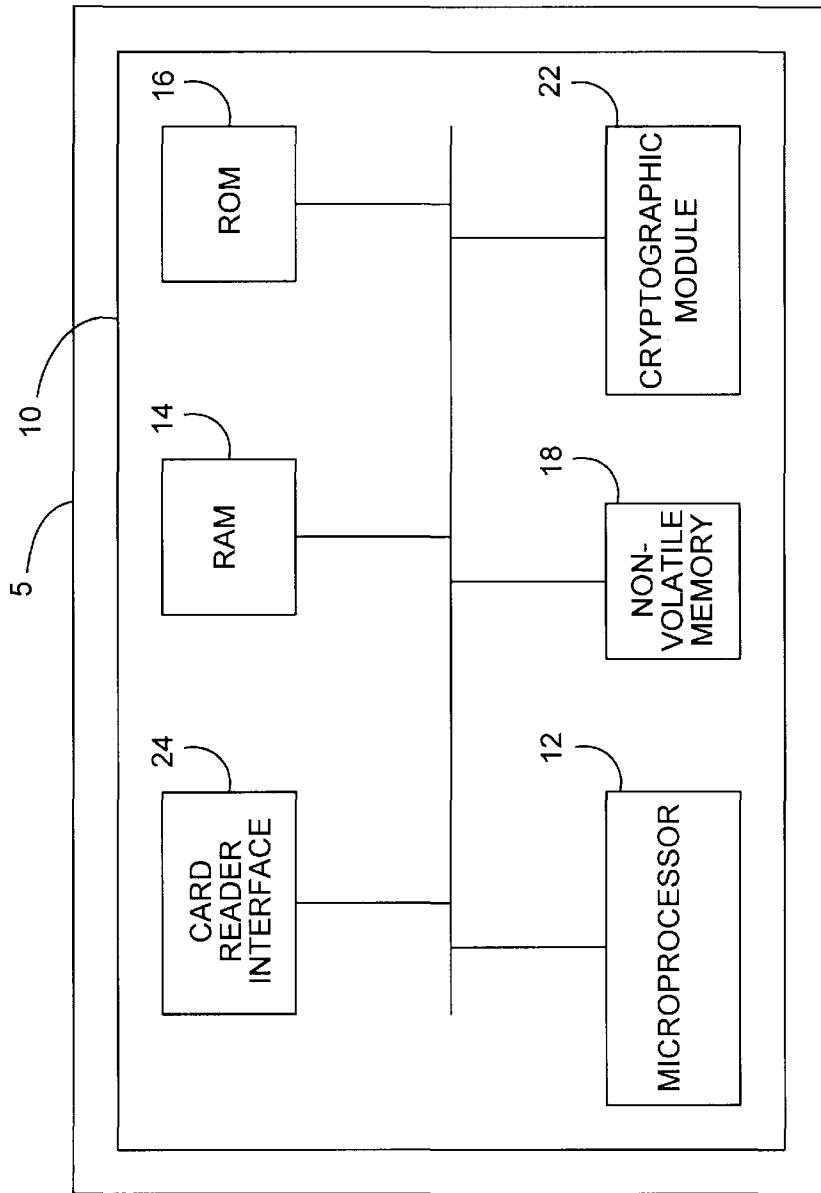
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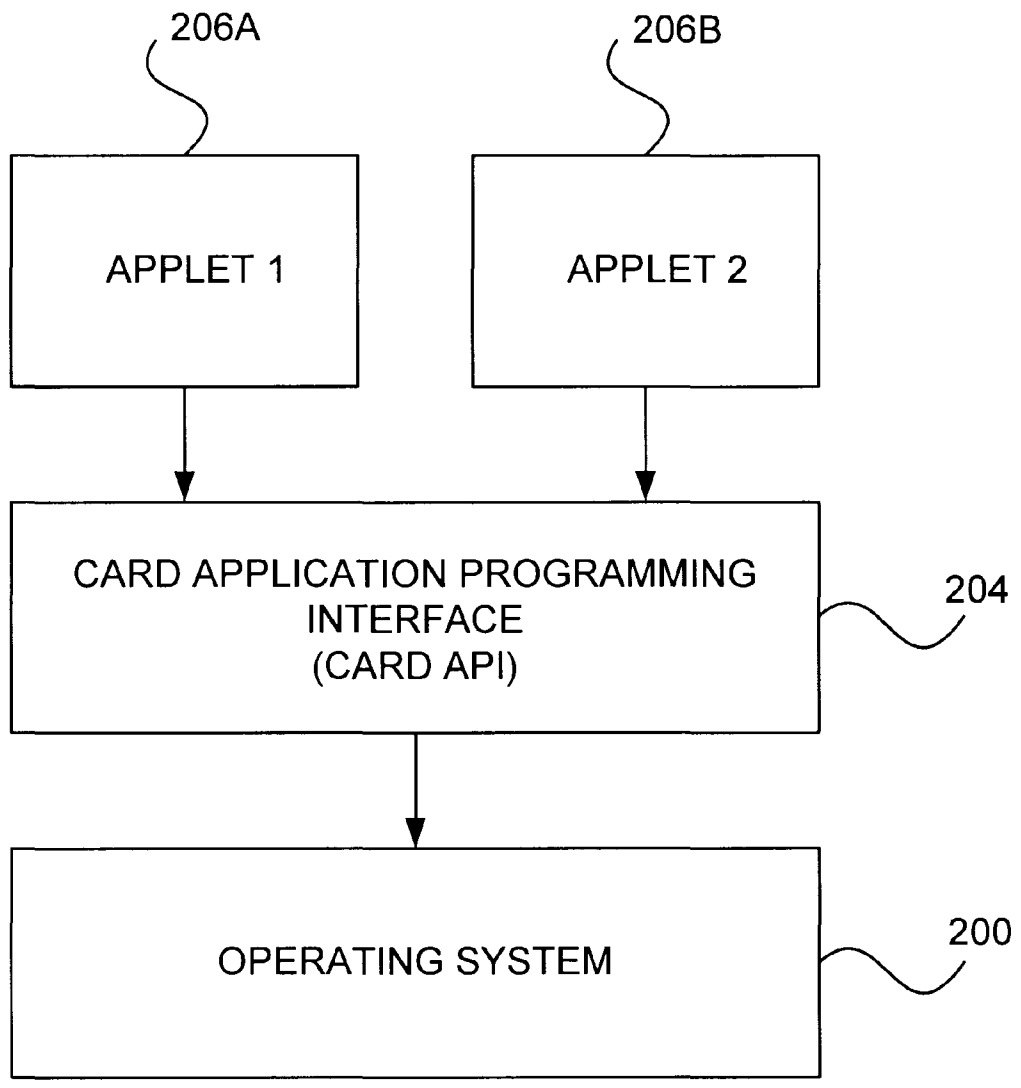
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SMART CARD

FIG. 1
(PRIOR ART)



SMART CARD SOFTWARE LAYERS

FIG. 2
(PRIOR ART)

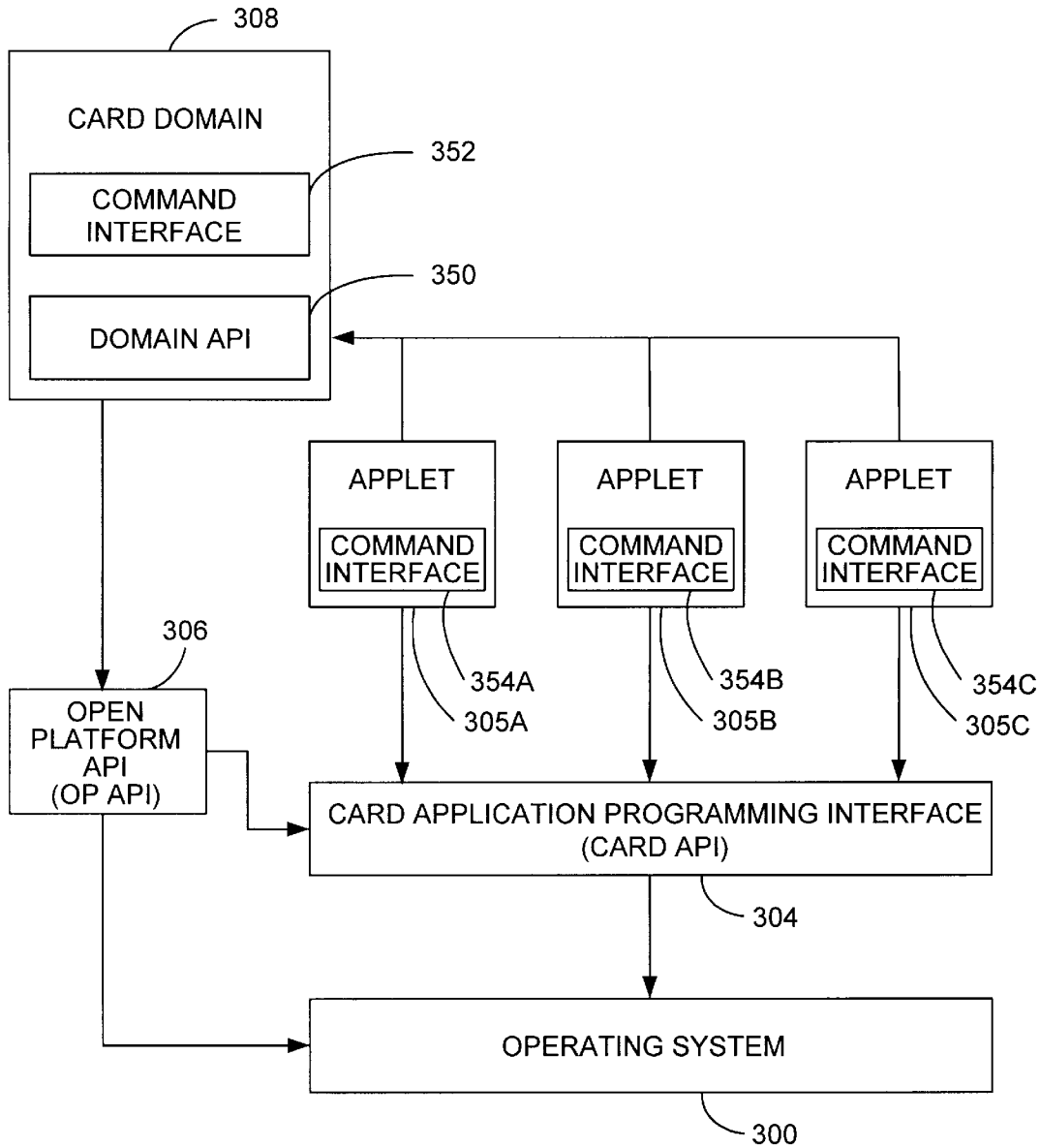


FIG. 3A

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